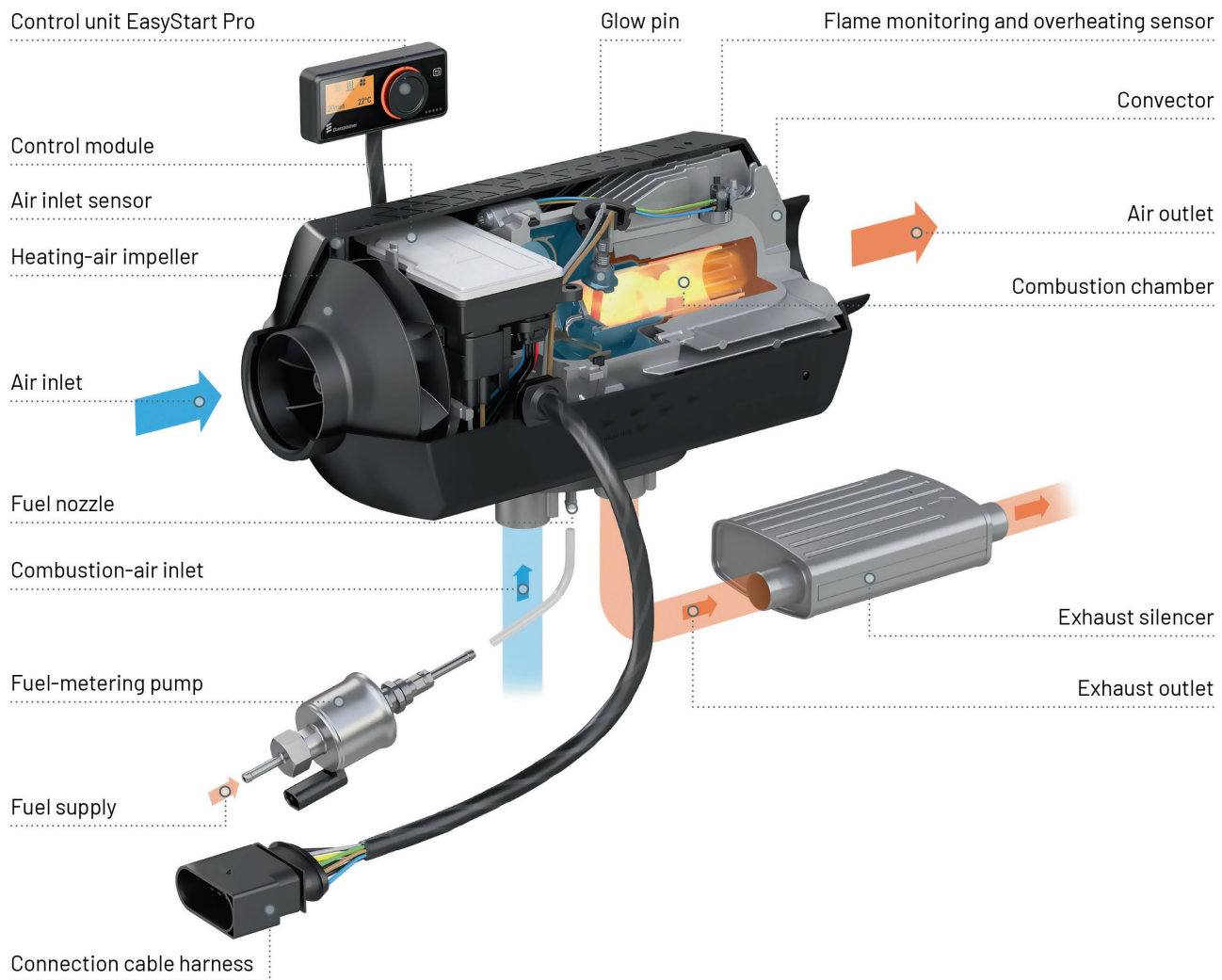


PRODUCT INFORMATION

AIRTRONIC: TECHNOLOGY



AIRTRONIC FUNCTIONS:

- Combustion air is conveyed to the combustion chamber by the fan motor and impeller.
- Fuel is drawn from the vehicle's tank.
- Fuel is delivered to the combustion chamber by the metering pump.
- The glow element (filament glow plug from 5 kW) vaporizes this fuel as it enters the combustion chamber and creates a combustible fuel-air mix with the combustion air.
- The resulting flame formation switches off the glow element (or filament glow plug), transfers the heat to the heating air via the convactor, and diverts exhaust gas via the exhaust silencer.
- The fan motor and heating-air impeller convey cool air to the heater, where it is warmed by the convactor and then blown into the vehicle interior.

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PRODUCT INFORMATION

The heating output information provided refers to heating the interior of a cold vehicle to around 68 °F or 20 °C in cold outside temperatures. If the heater only needs to maintain the existing temperature of the interior, less heating power is required. The heating outputs are only guide values. The exact heating requirement also depends on other environmental conditions (e.g. wind, materials, cabin walls, heating-air ducting, etc.).

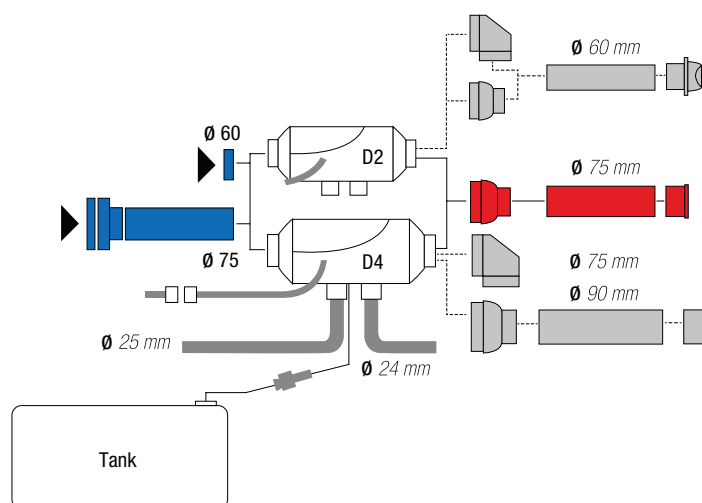
GUIDE VALUES FOR REQUIRED HEATING OUTPUT

Example	Volume of interior	Outside temperature		
		< -15 °C	-15 °C to 0 °C	> 0 °C
Truck cabin	< 8 m ³	4 kW	3 kW (2 kW)*	2 kW
Small bus	8 – 12 m ³	5 kW (4 kW)*	4 kW (3 kW)*	2 kW
Motor home / van	12 – 20 m ³	8 kW	6 kW (5 kW)*	4 kW

* Values (referring to heat-insulated cabins / vehicles)

Selecting the device and the respective advantages:

- Airtronic S3 Commercial: the smallest air heater on the market, advantageous in cramped installation spaces. Air ducting with 60 mm or 75 mm air hoses possible. Performance 2,200 Watt (Gasoline 2,000 Watt).
- Airtronic M3 Commercial: output 4,000 W, air ducting with 75 mm or 90 mm air hoses possible, for vans and suitably sized trucks; offers the advantage of high power within a reasonable installation space, wide range of applications from 1,050 W (gasoline 1,300 W) to 4,000 W.
- Airtronic M3 Recreational: for applications requiring a higher air throughput, e.g. for long, complex heating-air ducting in campers/motor homes, boats or ambulances. Performance 4,000 Watt



PRODUCT INFORMATION

EBERSPÄCHER AIRTRONIC



Heater		Airtronic S3 Commercial		
Product Package		Heater, metering pump		
Techn. designation		Airtronic S3 D2L - 12V	Airtronic S3 D2L - 24V	Airtronic S3 B2L - 12V
Order no. for heater		25.2953.05.0000	25.2954.05.0000	20.2029.05.0000
Fuel - commercially available (DIN EN 590)	Diesel	Diesel	Gasoline	
Voltage	V	12	24	12
Heating medium		Air		
Heat settings - Controls		Off / minimum / maximum - Stepless		
Heating Perfomance	W	850 - 2,200		1,000 - 2,000
Heating Perfomance	BTU/hr	2900 - 7510		3400 - 6820
Fuel consumption	l/h	- / 0.1 / 0.27		- / 0.14 / 0.26
Fuel consumption	gal/hr	- / 0.03 / 0.07		- / 0.04 / 0.07
Elec. power consumption, operation	W	4 / 6 / 27	7 / 9 / 28	4 / 11 / 26
Elec. power consumption, start	W	≤ 80	≤ 90	≤ 80
Air throughput w/o backpressure	kg/h	20/50/105		20/65/100
Lower voltage limit	V	10.5	21	10.5
Upper voltage limit	V	16	32	16
Interference suppression		Interference suppression class 5 (DIN EN 55025)		
Dimensions L x W x H	mm	310 x 115 x 122		
Weight	Kg or (lbs)	Approx. 2.5		
Ventilation mode		Available		

EBERSPÄCHER AIRTRONIC



Heater	Airtronic M3 Commercial		
Product Package	Heater, metering pump		
Techn. designation	Airtronic D4L - 12V	Airtronic D4L - 24V	Airtronic B4L - 12V
Order no. for heater	25.2955.05.0000	25.2956.05.0000	20.2030.05.0000
Fuel - commercially available (DIN EN 590)	Diesel		Gasoline
Voltage V	12	24	12
Heating medium	Air		
Control/heat settings	Off/stepless: min.-max.		
Heating Performance W	- / 1,050 / 4,000		- / 1,300 / 4,000
Heating Performance BTU/hr	- / 3583 / 13649		- / 4436 / 13649
Fuel consumption l/h	- / 0.12 / 0.49		- / 0.17 / 0.55
Fuel consumption gal/hr	- / 0.03 / 0.12		- / 0.04 / 0.15
Elec. power consumption, operation W	4 / 6 / 37	7 / 9 / 39	4 / 8 / 38
Elec. power consumption, start W	≤ 105	≤ 100	≤ 105
Air throughput w/o backpressure kg/h	35 / 40 / 185		24 / 85 / 180
Lower voltage limit V	Approx. 10.5	Approx. 21	Approx. 10.5
Upper voltage limit V	Approx. 16	Approx. 32	Approx. 16
Interference suppression	Interference suppression class 5 (DIN EN 55025)		
Dimensions L x W x H mm	376 x 140 x 150		
Weight empty Kg	4.5		
Ventilation mode	Available		

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PRODUCT INFORMATION

EBERSPÄCHER AIRTRONIC



Heater	Airtronic M3 Recreational		
Product Package	Heater, metering pump		
Techn. designation	Airtronic D4R - 12V	Airtronic D4R - 24V	Airtronic B4R - 12V
Order no. for heater	25.2957.05.0000	25.2958.05.0000	20.2031.05.0000
Fuel commercially available(DIN EN 590)	Diesel		Gasoline
Voltage V	12	24	12
Heating medium	Air		
Control/heat settings	Off/stepless: min.-max.		
Heating Performance W	-/ 1,050 / 4,000		- / 1,300 / 4,000
Heating Performance BTU/hr	- / 3583 / 13649		- / 4436 / 13649
Fuel consumption l/h	-/ 0.12 / 0.49		- / 0.17 / 0.55
Fuel consumption gal/hr	- / 0.03 / 0.12		- / 0.04 / 0.15
Elec. power consumption, operation W	5 / 7 / 53	8 / 10 / 55	5 / 10 / 54
Elec. power consumption, start W	≤ 105	≤ 90	≤ 110
Air throughput w/o backpressure kg/h	37 / 45 / 190		37 / 85 / 190
Lower voltage limit V	Approx. 10.5	Approx. 21	Approx. 10.5
Upper voltage limit V	Approx. 16	Approx. 32	Approx. 16
Interference suppression	Interference suppression class 5 (DIN EN 55025)		
Dimensions L x W x H mm	376 x 140 x 150		
Weight empty Kg	Approx. 2.5		
Ventilation mode	Available		

EBERSPÄCHER AIRTRONIC



Heater	Airtronic L3		Airtronic XL3
Product Package	Heater, metering pump		
Techn. designation	Airtronic L3 D6L - 12V	Airtronic L3 D6L - 24V	Airtronic XL3 D8L - 24V
Order no. for heater	25.2959.05.0000	25.2960.05.0000	25.3020.05.0000
Fuel - commercially available(DIN EN 590)	Diesel		
Voltage V	12	24	
Heating medium	Air		
Control/heat settings	Off/stepless: min.-max.		
Heating Performance W	-/ 1,500 / 6,000		- / 2,000 / 7,600
Heating Performance BTU/hr	- / 5118 / 20473		- / 6824 / 25932
Fuel consumption l/h	-/ 0.16 / 0.74		- / 0.23 / 1.01
Fuel consumption gal/hr	- / 0.04 / 0.20		- / 0.06 / 0.27
Elec. power consumption, operation W	7 / 90	11 / 95	8 / 130
Elec. power consumption, start W	≤ 90	≤ 85	≤ 90
Air throughput w/o backpressure kg/h	60 / 80 / 285		60 / 120 / 300
Lower voltage limit V	Approx. 10.5		Approx. 21.4
Upper voltage limit V	Approx. 16		Approx. 32
Interference suppression	Interference suppression class 5 (DIN EN 55025)		
Dimensions L x W x H mm	438 x 160 x 170		493 x 160 x 170
Weight empty Kg	Approx. 7		Approx 8.5
Ventilation mode	Available		

AIRTRONIC S3/M3
DIESEL AIR HEATER - 7,500 BTU / 13,600 BTU

		Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pick-up Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Portal Instructions
AIRTRONIC S3/M3												
S3 D2L 12V Commercial with fuel pump - No installation parts	25.2953.05.0000											
S3 D2L 24V Commercial with fuel pump - No installation parts	25.2954.05.0000											
M3 D4L 12V Commercial with fuel pump - No installation parts	25.2955.05.0000											
M3 D4L 24V Commercial with fuel pump - No installation parts	25.2956.05.0000											
M3 D4R 12V Recreational with fuel pump - No installation parts	25.2957.05.0000											
M3 D4R 24V Recreational with fuel pump - No installation parts	25.2958.05.0000											
HEATER WITH INSTALLATION KIT												
Install Kit - Airtronic S3 D2L 12V	20.2829.53.0200											
Install Kit - Air S3 D2L 12V w/ EPRO U/P	20.2829.53.0201											
Install Kit - Airtronic S3 D2L 24V	20.2829.54.0200											
Install Kit - Airtronic M3 D4L 12V	20.2829.55.0400											
Install Kit - Air M3 D4L 12V w/ EPRO U/P	20.2829.55.0402											
Install Kit - Airtronic M3 D4L 24V	20.2829.56.0400											
Install Kit - Airtronic M3 D4R 12V	20.2829.57.0400											
Install Kit - Airtronic M3 D4R 24V	20.2829.58.0400											

AIRTRONIC S3/M3
GASOLINE AIR HEATER - 7,500 BTU /13,600 BTU

AIRTRONIC S3/M3												
S3 B2L 12V Commercial with fuel pump	20.2029.05.0000											
M3 B4L 12V Commercial with fuel pump	20.2030.05.0000											
M3 B4R 12V Recreational with fuel pump	20.2031.05.0000											
HEATER WITH INSTALLATION KIT												
Install Kit - Airtronic S3 B2L 12V	20.2820.29.0200											
Install Kit - Airtronic M3 B4L 12V	20.2820.30.0400											
Install Kit - Air M3 B4L 12V w/ EPRO U/P	20.2820.30.0402											
Install Kit - Airtronic M3 B4R 12V/24V	20.2820.31.0400											

Items in the Kit

HARDWARE KIT INCLUDES:

- Mounting Screws
Nuts
Ducting Clamps
Flanges
Screens
Washers
Grommets
- Routing Clamps
Exhaust Clamps
End Caps
Exhaust Brackets



FUEL SYSTEM INCLUDES:

- Clamps
5 mm Fuel Line
Plastic Fuel Line
3.5 mm Fuel Line

Refer to the Accessories Section for ducting components and additional accessories. Refer to heater manual for individual installation parts.

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AIRTRONIC L3/XL3
DIESEL AIR HEATER - 20,500 BTU / 26,000 BTU

AIRTRONIC L3/XL3 - DIESEL

L3 D6L 12V Commercial with fuel pump - No installation parts	25.2959.05.0000
L3 D6L 24V Commercial with fuel pump - No installation parts	25.2960.05.0000
XL3 D8L 24V Commercial with fuel pump - No installation parts	25.3020.05.0000

INSTALL KITS

Install Kit – AL3 D6L 12/24V/ EPRO-NO HTR	20.2829.60.0600
Install Kit – AXL3 D8L 24V – NO HEATER	20.2830.20.0800

Heater	   	    	    
Harness	   	    	    
Fuel System	   	    	    
Ducting	   	    	    
Mounting Bracket	   	    	    
Control Options / Timers	   	    	    
Fuel Pick-up Pipe	   	    	    
Hardware Kit	   	    	    
Exhaust Pipe	   	    	    
Intake Pipe	   	    	    
Boxed Enclosure	   	    	    
Portal Instructions	   	    	    

HARDWARE KIT INCLUDES:

Fuel Clamps	Exhaust Clamps	Washers	Exhaust Brackets
Nuts	Mounting Screws	Routing Clamps	
Cable Ties	Ducting Clamps	End Caps	

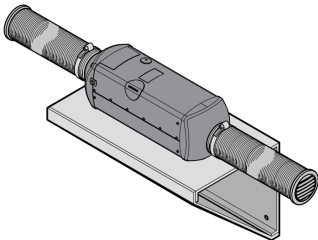
FUEL SYSTEM INCLUDES:

Clamps
5 mm Fuel Line
Plastic Fuel Line
3.5 mm Fuel Line

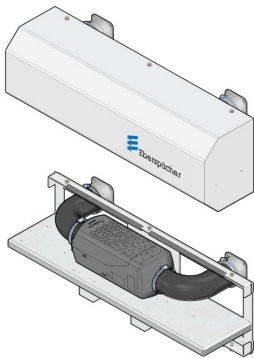
Refer to the Accessories Section for ducting components and additional accessories.
Refer to heater manual for individual installation parts.

AIRTRONIC L3/XL3
DIESEL AIR HEATER - 20,500 BTU / 26,000 BTU

ECHO / CARGO KITS



Cargo install kits



ECHO series install kits

- ECHO AXL3 D8L ASSEMBLY 12V DC/110 V AC
ECHO AL3 D6L HEATER ASSEMBLY 12V ++
INSTALL KIT – ECHO AX3 4/6 12V - NO HTR ++
INSTALL KIT – CARGO AX3 4/6 WALL- NO HTR ++

- 20.2830.20.0801
20.2829.59.0461
20.2829.59.0462 **
20.2829.59.0463 *

** PN 20.2829.59.0462 does not come with the heater and outlet hood.
Select from following list of heater and its outlet hood (90 mm) combinations:

- 20.2829.59.0462 with AL3 D6L Heater
 - 12V AL3 D6L Heater: 25.2959.05.0000
 - Duct hood (90 mm) for D6L: 22.1000.01.0086
- 20.2829.59.0462 with AM3 D4R Heater
 - 12V AM3 D4R Heater: 25.2957.05.0000
 - Duct hood (90 mm) for D4R: 22.1000.01.0019
- 20.2829.59.0462 with AM3 B4R Heater
 - 12V AM3 B4R Heater: 25.2031.05.0000
 - Duct hood (90 mm) for D4R: 22.1000.01.0019

* PN 20.2829.59.0463 does not come with the heater and outlet hood.
Select from following list of heater and its outlet hood (90 mm) combinations:

- 20.2829.59.0463 with AL3 D6L Heater
 - 12V AL3 D6L Heater: 25.2959.05.0000
 - Duct hood (90 mm) for D6L: 22.1000.01.0086
- 20.2829.59.0463 with AM3 D4R Heater
 - 12V AM3 D4R Heater: 25.2957.05.0000
 - Duct hood (90 mm) for D4R: 22.1000.01.0019
- 20.2829.59.0463 with AM3 B4R Heater
 - 12V AM3 B4R Heater: 25.2031.05.0000
 - Duct hood (90 mm) for D4R: 22.1000.01.0019

++ Enhance 12V CARGO/ECHO 6 with shore power input option: (PNs: 20.2829.59.0461, 20.2829.59.0462, 20.2829.59.0463)

1) Shore power plug in (110V AC)

- 110V AC- 12V DC Power converter assembly: 20.2900.70.0172
- Power receptacle box assembly; 20.2900.40.8005

For further information related to power converter and its electrical connections, please contact Eberspaecher Technical Support

QUICK-REFERENCE GUIDE

The basic principle of pre-heaters is to heat the passenger compartment of all kinds of vehicles without having to depend on the heat given off by a running engine. That's a well-known fact. But at some point or other you must have asked yourself what the actual difference is between air and water heaters.

Air-based pre-heater – Eberspächer Airtronic:

Air-based pre-heaters are mostly installed inside the cab and directly heat the air inside it, which is sucked in via the unit's own fan. Their effects are noticeable almost instantly, as the heat in the form of hot gas, which is produced by a burner, does not have to heat up a water circuit first. Modern devices are very quiet, low on emissions and chiefly used to maintain the temperature in the cab of a truck or van at a pleasant level even while it is at a standstill (e.g. overnight).

Water-based pre-heater – Eberspächer Hydronic:

Water-based pre-heaters have a compact design and can be fitted almost anywhere in the engine compartment. They are therefore the pre-heater of choice for cars with interiors too cramped for additional installations. The heat generated by a burner is transferred to the vehicle's coolant.

An (additional) electric circulation pump distributes the hot coolant, even when the engine is switched off. Then, the interior fan is activated automatically – everything works as it does in normal heater operation. Water-based heaters therefore not only warm up the interior but, depending on the application, also the engine or the water used in boats or motor homes. Engines heated in this way can be started more easily in cold weather while also protecting the car battery from the effects of the cold, and producing fewer harmful emissions on starting, as the hotter exhaust temperature enables the catalytic converter to reach its operating temperature more quickly. The cold-starting phase, which produces mechanical stress and higher emissions, is dramatically reduced, as the oil reaches operating temperature fast when the engine is started. This saves fuel and money while lowering CO₂ emissions at the same time.

Both systems generally run on the vehicle's fuel, straight out of the fuel tank. Depending on the model, you can use a timer, remote control, smartphone, smartwatch, Alexa or a browser to control them.

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QUICK REFERENCE GUIDE

Airtronic S3 (2.2 kW):

Heating comfort for a variety of applications.



Vans, small motor homes, small buses



Truck cabs with sleeping cabins



Construction and agricultural machines without engine-dependent heating



Forklifts and other plant machinery



Electric vehicles

Airtronic M3 (4 kW):

The high-performance, compact air heater for mid-range requirements.



Large trucks – cabs with sleeping cabins



Vans, small buses



Large agricultural and construction machines



Motor homes



Minivans, and vehicles used for conferences and consultancy

Airtronic L3 (6 kW):



Vans, workshop vehicles, personnel carriers, small buses (fast heating despite door opening frequently)



Ambulances and emergency medics' vehicles (special heating and temperature requirements)



Freight compartment and freight goods heating plus frost protection and dew point prevention

Airtronic XL3 (8 kW):

Continuously variable, pre-selectable heating performance regulation.



Large freight compartments, containers



Personnel carriers



Coaches and city buses